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# NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 04/06/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 EXAMINER

NGUYEN, JENNIFER T

ART UNIT

PAPER NUMBER

2629 DATE MAILED: 04/06/2009

PO BOX 747 FALLS CHURCH, VA 22040-0747

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/878,401
 06/12/2001
 Jac Yong Park
 2658-0268P
 2192

TITLE OF INVENTION: ELECTRO-LUMINESCENCE DISPLAY

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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maintenance fee notificatio	ns.							should be completed where t correspondence address as parate "FEE ADDRESS" fo
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09/878,401 TITLE OF INVENTION: E	06/12/2001 ELECTRO-LUMINES	CENC	E DISPLAY	Jae Yong Park		·	2658-0268P	2192
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NGUYEN, JEN			2629	345-076000				
1. Change of correspondenc CFR 1.563).  Change of corresponded corresponded cress form PTO/SB/1  Free Address India Grant Corresponded cress form PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME AND PLEASE NOTE: Unless recordation as set forth in (A) NAME OF ASSIGN	dence address (or Chai 122) attached. ation (or "Fee Address" or more recent) attach D RESIDENCE DATA s an assignee is identi n 37 CFR 3.11. Comp	Indicated. Us	Correspondence ation form e of a Customer		to 3 registered atively, agle firm (havin regent) and the ttorneys or agen be printed. type) patent. If an a an assignment.	patent att g as a me e names o tts. If no n	mber a 2 f up to a 3 s identified below, the a	document has been filed for
Please check the appropriate	e assignee category or	catego	ories (will not be pr	inted on the patent):	☐ Individual	☐ Corpo	ration or other private gr	roup entity Government
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				A check is enclose Payment by credit	i. card. Form PTO by authorized to	-2038 is a	he required fee(s), any d	
<ol> <li>Change in Entity Status</li> <li>a. Applicant claims S</li> </ol>				☐ b. Applicant is no l	onger claiming	SMALL E	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and F interest as shown by the rec	Publication Fee (if requeords of the United State	ired) tes Pat	will not be accepted ent and Trademark	d from anyone other tha Office.	n the applicant;	a register	ed attorney or agent; or t	the assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/878,401	06/12/2001	Jae Yong Park	2658-0268P	2192	
2292 7	590 04/06/2009		EXAMINER		
BIRCH STEWA	RT KOLASCH & B	NGUYEN, JENNIFER T			
PO BOX 747		ART UNIT	PAPER NUMBER		
FALLS CHURCH	I, VA 22040-0747	2629			

DATE MAILED: 04/06/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 802 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 802 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Application No. Applicant(s) 09/878.401 PARK, JAE YONG Notice of Allowability Examiner Art Unit 2629 JENNIEER T. NGLIYEN -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 01/12/09. The allowed claim(s) is/are 1,2 and 7-10. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) XI All 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_ 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: . . Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Notice of Draftperson's Patent Drawing Review (PTO-948) Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /Regina Liang/

Primary Examiner, Art Unit 2629

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Bilodeau on 03/23/09.

1. (Currently Amended) An electro luminescence display, comprising:

an electro-luminescence panel having a first face including a display area and an opposite face having a non-display area;

driving circuit boards for applying driving signals to a gate line and a data line coupled directly to the opposite face having the non-display area of the electro-luminescence panel;

<u>first</u> electrical pads located on an inside perimeter of the opposite face of the electroluminescence panel;

second electrical pads located on the driving circuit boards corresponding to and aligned with the <u>first</u> electrical pads located on the inside perimeter of the opposite face of the electroluminescence panel; and

tape carrier packages contacting the <u>first</u> electrical pads on the opposite face of the electroluminescence panel and the <u>driving eireuit board second</u> electrical pads <u>located on the driving circuit boards</u>, and being coupled directly to substantially the entire length of the opposite side of the <u>electroluminescense</u> <u>electroluminescence</u> panel located between the <u>second</u>

electroluminescence panel in a planar state.

electrical pads located on the driving circuit boards and the first electrical pads located on the

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### Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 1, 2, and 7-10 are allowable because the instant application is directed to a nonobvious improvement over the invention described in patent No.; US 6,275,220 (Nitta) and US 6,774,872 (Kawada et al.), The improvement comprise: first electrical pads located on an inside perimeter of the opposite face of the electroluminescence panel; second electrical pads located on the driving circuit boards corresponding to and aligned with the first electrical pads located on the inside perimeter of the opposite face of the electroluminescence panel; and tape carrier packages contacting the first electrical pads on the opposite face of the electroluminescence panel and the second electrical pads located on the driving circuit boards, and being coupled directly to substantially the entire length of the opposite side of the electroluminescence panel located between the second electrical pads located on the driving circuit boards and the first electrical pads located on the electro-luminescence panel in a planar state. This patentable distinction is included in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/878,401

Art Unit: 2629

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer T. Nguyen whose telephone number is 571-272-7696. The examiner can normally be reached on Mon-Fri: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/J. T. N./ Examiner, Art Unit 2629

/Regina Liang/

Primary Examiner, Art Unit 2629